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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/702,450	11/07/2003	Eiji Kato	KATO27	9721
1444	7590 01/13/2006		EXAMINER	
	AND NEIMARK, P.L	MARTIN, ANGELA J		
624 NINTH STREET, NW SUITE 300			ART UNIT	PAPER NUMBER
WASHING	WASHINGTON, DC 20001-5303			
			DATE MAILED: 01/13/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/702,450	KATO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Angela J. Martin	1745				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 07 No	ovember 2003.					
	action is non-final.					
3) Since this application is in condition for allowan		secution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-8</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-8</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
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Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/7/03.	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:					

DETAILED ACTION

1. The disclosure is objected to because of the following informalities: The Applicant has the phrase "or the like" in several parts of the specification, such as in a series of elements which are unrelated (ex. pg. 14, lines 15-24).

Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. Regarding claim 1, the phrase "or the like" renders the claim(s) indefinite because the claim(s) include(s) elements not actually disclosed (those encompassed by "or the like"), thereby rendering the scope of the claim(s) unascertainable. See MPEP § 2173.05(d).

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Application/Control Number: 10/702,450

Art Unit: 1745

6. Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Kitagawa et al., JP 2002-270212 (machine translation).

Page 3

Rejection of claims 1, 3 drawn to a fuel cell.

Kitagawa et al., teach a fuel cell comprising end plates (sect. 0006), a unit cell disposed between the end plates (sect. 0020), a fuel distribution manifold disposed centrally of the unit cell to supply a fuel to the unit cell (sect. 0021), a tie bolt extending centrally through the manifold and through the cell (sect. 0026), fixing nuts screwed onto both ends of the tie bolt (sect. 0022-0023), a cell stack (Fig. 1) which comprises a solid polymer electrolyte membrane (sect. 0020), an oxygen passage plate (sect. 0020), a fuel electrode (sect. 0020), an oxygen electrode (sect. 0020), separator plates (sect. 0020), wherein the manifold is rod-shaped (Fig. 2 and 5, ref. 32), a fuel supply passage is formed in the tie bolt (Fig. 2, ref. 26 and 32), and fuel distribution passage (sect. 0023). Kitagawa et al., discloses the claimed invention except for the fuel distribution manifold "having a polygonal-shaped cross section." It would have been an obvious matter of design choice to make a polygonal cross section, and is within the level of ordinary skill in the art.

Thus, the claims are anticipated.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 1745

8. Claims 2, 4-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kitagawa et al., JP 2002-270212.

Kitagawa et al., teach a fuel cell as described above.

Kitagawa et al., do not teach radial cut grooves formed on both axial ends of the fuel distribution manifold; fuel distribution passages have a substantially sector-shaped cross section and extend axially along the manifold.

However, the invention as a whole would have been obvious to one of ordinary skill in the art at the time the invention was made because it would have been an obvious matter of design choice to make radial cut grooves on both axial ends of the fuel distribution manifold to fit the fuel cell, and is within the level of ordinary skill in the art. In addition, fuel distribution passages having a substantially sector-shaped cross section are an obvious matter of design choice and are within the level of ordinary skill in the art.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Wilson et al., U.S. Pat. No. 5,595,834, teach an air breathing fuel cell having a fuel distribution manifold within the annular region.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela J. Martin whose telephone number is 571-272-

Art Unit: 1745

1288. The examiner can normally be reached on Monday-Friday from 9:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A.JM